


IOWA DEPARTMENT OF WATER, AIR AND WASTE MANAGEMENT

Report Of Investigation

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INVESTIGATION DATE Current 8/10/83 Last 7/19/83 TO: (Facility Name, Location & Address) UMTHUN TRUCKING EAGLE GROVE, IA 50533 RE: (Specify Investigation Purpose Or Cite Rule) CONTAMINATED WELL	FROM: (Use Stamp) Region No. 6 P. O. Box 27 Washington, Iowa 52353 Persons Contacted (Name & Position) Kevin Powell, Mgr. Ed Winslow, Well Driller Ray Holder, Scott Co. H.D. 30815350  Superfund
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OBSERVATIONS/RECOMMENDATIONS

On July 18, 1983, the Scott County Health Department (Al Moore) contacted the Department of Water, Air and Waste Management, Region 6 office, to request assistance on a contaminated well located at the Umthun Trucking Company, Buffalo, Iowa (east on Hwy. 22, north 1/2 mi. on Co. Rd. Y48).

Scott County Health reported water had pH 2.9, nitrate - 2060 mg/l, iron - 80 mg/l, hardness - 3.800 mg/l, bacterially safe. Well 240 ft. deep. Ed. Winslow driller (home (b) (6), office 391-5740).

Had Ray Holder, also with Scott County, collect samples from all private wells in vicinity of Umthun. Wilson Concrete (pH 7.6, nitrate - <5 mg/l) and Scott County Landfill (pH 7.3, nitrate - <5 mg/l) are located to the north (upgradient) from Umthun. Ruan Trucking Co. (pH 7.2, nitrate - <5 mg/l) located to south (downgradient). Conclusion: problem seems localized at Umthun well. Not widespread.

Checked with Leonard Mineart, operator Scott County Landfill, on August 5, 1983. Reference made to prior Roto Router dumping (see DEQ R6 complaint no. 10/81-2 dated 10/12/81) regarding alleged illegal disposal hazardous (?) waste across road from Umthun, 1 - 2 years ago. No other leads. Steve Hoambrecker suggested checking Special Waste Authorizations to Scott County Landfill. Also possibly contact Hobbs with Roto Router.

Linwood Stone contacted Gaylord Krewer, Manager. No knowledge of problem. Linwood does dispose of dust, coal residue in mine workings underneath Umthun (9.84% SiO₂, 2.9% FeO, 5.67% AlO, 45.85% CaO, 0.46% MgO, 1.2% S, 10.87% C, 23.32% undetermined, reportedly includes "coal, rock residue"). Might also be NaCl, di cal phosphate, traces of ammonium nitrate in mine workings. Mentioned Wilson well goes through pillar, whereas Umthun well enters (but is cased through) mine workings.

I suspect acid wastes of unknown composition have corroded well casing, entered water supply. Water samples collected 7/19/83, 8/5/83 confirmed suspicions. Lee Friel, U.H.L., Des Moines, stated high metals content (V - 1.7 mg/l, Cr - 0.5 mg/l, Cu 3.7 mg/l).

SUSPENSE DATE	Signature	Date
1/1	Inspector Merritt W. Van Lier	8/17/83
	Regional Administrator Earl C. Voelker, Sr.	8/18/83

Enclosures (Specify) _____ Date Copy Mailed: 8/18/83 - w.
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UMTHUN TRUCKING

Zn 6.3 mg/l). Also, high Cl (1300 mg/l) and SO₄ (>2000 mg/l) content. "Sample is real mess".

Additional sample collected by Umthun and tested by Consulting & Analytical Chemists showed: pH 2.47, Fe 57 mg/l, hardness 3830 mg/l, SO₄ 4,005 mg/l, Cl 1360 mg/l, Na 610 mg/l, NO₃ 1680 mg/l.

Called Joe Umthun and Ed. Winslow to discuss. Advised Joe Umthun to disconnect plumbing from well. (Corrosivity will attack pipes.) Suggested he bring in tanker with potable water. Hook up. Serve as temporary supply.

Recommend referral to Des Moines for detailed investigation (e.g. Paul Lundy, uncontrolled site area ?) Suspect we may have to remove and recover wastes from mine workings. Possibility of pumping up through Umthun well.